

Title (en)

METHOD FOR PREVENTING REPLICATION IN CRYPTOSPORIDIUM PARVUM USING ULTRAVIOLET LIGHT

Title (de)

METHODE ZUR VERHINDERUNG DER VERMEHRUNG VON CRYPTOSPORIDIUM PARVUM MIT ULTRAVIOLETTEM LICHT

Title (fr)

PROCEDE POUR PREVENIR LA REPLICATION DE \$(CRYPTOSPORIDIUM PARVUM) A L'AIDE D'UN RAYONNEMENT ULTRAVIOLET

Publication

**EP 1084080 B2 20120215 (EN)**

Application

**EP 99921674 A 19990505**

Priority

- US 9909800 W 19990505
- US 7811698 A 19980513

Abstract (en)

[origin: WO9958454A1] A method for preventing the replication of cryptosporidium parvum oocysts and similar organisms comprising irradiating water with a broad band of ultraviolet light in doses from about 10 mJ/cm<2> to about 175 mJ/cm<2>, wherein said broadband is a frequency of 200 to 300 nm using a medium pressure lamp.

IPC 8 full level

**C02F 1/32** (2006.01)

CPC (source: EP KR US)

**C02F 1/32** (2013.01 - EP KR US); **C02F 2201/326** (2013.01 - EP KR US)

Citation (opposition)

Opponent :

- WO 9715332 A1 19970501 - PUREPULSE TECHNOLOGIES INC [US]
- DVGW-REGELWEK: "UV-Anlagen zur Desinfektion von Trinkwasser", MERKBLATT, October 1994 (1994-10-01) - October 1994 (1994-10-01)
- RANSOME, WHITMORE AND CARRINGTON: "Effect of disinfectants on the viability of Cryptosporidium...", WATERSUPPLY, vol. 11, 1993 - 1993, AMSTERDAM, pages 103 - 117, XP002113177
- CHEMICAL ABSTRACTS, vol. 29, no. 11, 1995, Columbus, Ohio, US; CAMPBELL, ROBERTSON, SNOWBALL AND SMITH: "Inactivation of oocysts of cryptosporidium parvum by ultraviol..." page 2583;
- WATER ENGINEERING DEVELOPMENT CENTER, UNI. OF LOUGHBOROUGH UK: "Water Sanitation for All", LAWRENCE BERKELEY LABORATORY REPORT NUMBER LBNL 40360, 1 September 1997 (1997-09-01) - 5 September 1997 (1997-09-05), DURBAN SOUTH AFRICA
- BIOLOGICAL ABSTRACTS, vol. 59, no. 11, November 1993, Philadelphia, PA, US; abstract no. 0099-2240/93/113661, FINCH, DANIELS, BLACK, SCHAEFER AND BELOSEVIC: "Dose response of Cryptosporidium parvum in Outbred..." page 3661-65;
- Report N° 28920212 - Load and Inactivation of the rotozoa Cryptosporidium and Giardia at the Weerseloseweg pumping station of the East Twente Waterworks Corp. February 1996 - L. Kruidenier and G.J. Medema.

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EP3477164A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9958454 A1 19991118**; AT E303346 T1 20050915; AU 3881999 A 19991129; AU 745173 B2 20020314; AU 745173 C 20041104; BR 9911778 A 20011002; CA 2331525 A1 19991118; CA 2331525 C 20020219; DE 69927020 D1 20051006; DE 69927020 T2 20060202; DE 69927020 T3 20120419; DK 1084080 T3 20050919; DK 1084080 T4 20120521; EP 1084080 A1 20010321; EP 1084080 B1 20050831; EP 1084080 B2 20120215; ES 2244193 T3 20051201; ES 2244193 T5 20120612; IL 139556 A0 20020210; JP 2002514504 A 20020521; KR 20010071249 A 20010728; NL 1012059 A1 19991116; NL 1012059 C2 20000125; NZ 508008 A 20020927; PT 1084080 E 20051130; US 6129893 A 20001010

DOCDB simple family (application)

**US 9909800 W 19990505**; AT 99921674 T 19990505; AU 3881999 A 19990505; BR 9911778 A 19990505; CA 2331525 A 19990505; DE 69927020 T 19990505; DK 99921674 T 19990505; EP 99921674 A 19990505; ES 99921674 T 19990505; IL 13955699 A 19990505; JP 2000548264 A 19990505; KR 20007012689 A 20001113; NL 1012059 A 19990512; NZ 50800899 A 19990505; PT 99921674 T 19990505; US 7811698 A 19980513